

## Product datasheet for **MR200650**

### Polr2i (NM\_027259) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Polr2i (NM\_027259) Mouse Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Polr2i  
Synonyms: 2810002B19Rik  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >MR200650 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGGAACCCGACGGGACGTACGAGCCTGGCTTCGTGGGTATTCGGTCTGCCAGGAATGTAATAACATGC  
TGTACCCCAAGGAGGACAAGGAAATCGCATTCTGCTGTACGCGTGCCGGAATTGCGATTACCAGCAGGA  
AGCCGACAACAGCTGCATCTACGTCAACAAAATCACGCACGAAGTGGACGAGCTGACCCAGATCATCGCA  
GACGTGTCCAGGACCCACGTTGCCCGGACGGAGGACCACCCGTGCCAGAAGTGTGGCCACAAGGAGG  
CAGTGTCTTTTCAGTCACACAGTGCCCGAGCTGAGGACGCCATGCGCCTGTACTATGTTTGAAGTCCCGC  
ACACTGCGGCCACCGCTGGACTGAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200650 protein sequence  
Red=Cloning site Green=Tags(s)

MEPDGTYEPGFVGIRFCQECNNMLYPKEDKENRILLYACRNCDYQQEADNSCIYVNKITHEVDELQIIIA  
DVSQDPTLPRTEHDPCQKCGHKEAVFFQSHSARAEDAMRLYYVCTAPHCGHRWTE

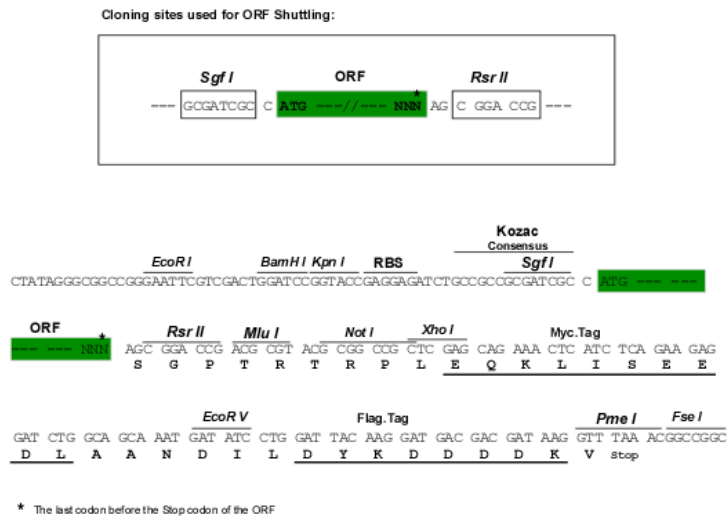
**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII



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## Cloning Scheme:



ACCN: NM\_027259

ORF Size: 375 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

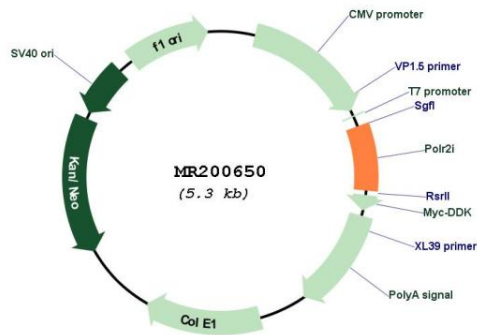
RefSeq: [NM\\_027259.1](#), [NP\\_081535.1](#)

RefSeq Size: 707 bp

RefSeq ORF: 378 bp  
 Locus ID: 69920  
 UniProt ID: [P60898](#)  
 Cytogenetics: 7 B1  
 MW: 14.5 kDa

**Gene Summary:** DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB9 is part of the upper jaw surrounding the central large cleft and thought to grab the incoming DNA template (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR200650